



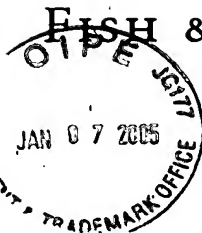
**COPY**

Attorney's Docket No. 17102-011001 / 1760	Hand Delivered by Mooreland and Moore on January 7, 2005	Mailing Date January 6, 2005	<b>For PTO Use Only</b> <i>Do Not Mark in This Area</i>
Application No. 10/806,924	Filing Date March 22, 2004	Attorney/Secretary Init SZS/NKS/kzf	
Title of the Application <b>METHOD FOR DESIGNING LINEAR EPITOPES AND ALGORITHM THEREFOR AND POLYPEPTIDE EPITOPES.</b>			
Applicant H. Mario Geysen et al.			
Enclosures · Transmittal Letter (1 page in duplicate) · Information Disclosure Statement (2 pages) · Form PTO-1449 (22 pages) · Cited References (11 volumes in 3 boxes) And this Return Postcard			

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January 6, 2005

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BOSTON  
DALLAS  
DELAWARE  
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SAN DIEGO  
SILICON VALLEY  
TWIN CITIES  
WASHINGTON, DC

Re: METHOD FOR DESIGNING LINEAR EPITOPES AND ALGORITHM  
THEREFOR AND POLYPEPTIDE EPITOPES.

Applicant: H. Mario Geysen et al.  
Application No.: 10/806,924  
Filing Date: March 22, 2004  
Country: United States  
Our Ref.: 17102-011001 / 1760

Gentlemen:

Please deliver the enclosed documents to the U.S. Patent and Trademark Office Mail Room on **Friday, January 7, 2005**. The documents enclosed are a Transmittal letter (in duplicate), Information Disclosure Statement, Form PTO-1449 (22 pages), bound references (11 volumes in 3 boxes), and a return postcard.

In addition, please have the enclosed postcard date-stamped by the PTO and returned to us at your earliest convenience. We would also appreciate receiving a confirmation from you indicating that delivery of the enclosed documents has been made.

Thank you for your assistance in this matter. If you have any questions, please do not hesitate to contact our office.

Sincerely,

  
Stephanie L. Seidman

SZS/nks

Enclosures



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : H. Mario Geysen et al.                      Art Unit : 1645  
Serial No. : 10/806,924                                      Examiner : Unknown  
Filed : March 22, 2004                                      Cust. No. : 20985  
Confirmation No.: 2873  
Title : METHOD FOR DESIGNING LINEAR EPITOPES AND ALGORITHM  
THEREFOR AND POLYPEPTIDE EPITOPES.

**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL LETTER**

Dear Sir:

Transmitted herewith are an Information Disclosure Statement, Forms PTO-1449 (22 pages), and cited references for filing in connection with the above-identified application. Because this Information Disclosure Statement is filed prior to receipt of a first office action on the merits in the above-referenced application, no fee is due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 06-1050, as stated below:



The Commissioner is hereby authorized to charge any fees that may be due in connection with this paper or with this application during its entire pendency to Deposit Account No. 06-1050. A duplicate of this sheet is enclosed.

Respectfully submitted,

Stephanie L. Seidman  
Reg. No. 38,779

**Dated: January 6, 2005**  
Attorney Docket No. 17102-011001 / 1760  
**Address all correspondence to:**  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Mario Geysen, et. al  
Serial No. : 10/806,924  
Filed : March 22, 2004  
Confirmation No.: 2873  
Title : METHOD FOR DESIGNING LINEAR EPITOPES AND ALGORITHM  
THEREFOR AND POLYPEPTIDE EPITOPES.

Art Unit : 1645  
Examiner : Unknown  
Cust. No. : 20985

**MAILSTOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT IN ACCORDANCE  
WITH 37 C.F.R. §§1.97-1.98**

Dear Sir:

Because this Information Disclosure Statement is before receipt of a first Office Action on the Merits of the above-captioned application, no fee is enclosed. If it is determined that a fee is due, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1050.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Form PTO-1449 (22 pages) and copies of the cited references are provided herewith in connection with the above-captioned application.

The documents listed on the Form PTO-1449 are in the English language. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed item is necessary.

Applicant also makes known to the Examiner the following pending U.S., International and National Phase Applications that have one or more common inventors and/or are commonly owned:

Docket No.	U.S.S.N.	Filing Date	Publ. No.	Publ. Date
1751	09/910,120	07/18/01	2002-0137053	09/26/02
1751B	10/341,226	12/27/02	2003-0143612	07/31/03
1753	10/351,891	01/24/03	2004-0048311	03/11/04
1754	10/699,088	10/30/03	2004-0209282	10/21/04

Applicant : Mario Geysen, et. al  
Serial No. : 10/806,924  
Filed : March 22, 2004  
Information Disclosure Statement  
Page : 2 of 2

Attorney's Docket No.: 17102-011001 / 1760


1755	10/699,113	10/30/03	2004-0241748	12/2/04
1759	10/699,114	10/30/03	n/a	n/a
P1762	60/536,184	1/12/04	n/a	n/a
P1762B	60/557,591	3/29/04	n/a	n/a

Docket No.	Int'l App. No.	Filing Date	Publ. No.	Publ. Date
1751PC	PCT/US01/22821	07/18/01	WO 0206834	01/24/02
1753PC	PCT/US03/02397	01/24/03	WO 03062402	07/31/03
1754PC	PCT/US03/34821	10/30/03	n/a	n/a
1755PC	PCT/US03/34747	10/30/03	n/a	n/a
1759PC	PCT/US03/34693	10/30/03	n/a	n/a

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references is effective as prior art against the subject application. In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. 1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and make them of record in the file history of the above-captioned application.

Respectfully submitted,

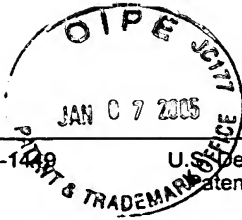
  
Stephanie L. Seidman  
Reg. No. 33,779

**Dated: January 6, 2005**

Attorney Docket No. 17102-011001 / 1760

**Address all correspondence to:**

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Email: seidman@fr.com  
10456257.doc



Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17102-011001 / 1760	Application No. 10/806,924
	Applicant Mario Geysen, et. al		
	Filing Date March 22, 2004	Group Art Unit 1645	

U.S. Patent Documents							
Examiner Initial	Desig ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A	3,843,443	10/22/74	Fishman	195	63	03/30/73
	B	3,939,123	02/17/76	Matthews et al.	260	77.5	06/18/74
	C	3,996,345	12/07/76	Ullman et al.	424	12	06/30/75
	D	4,006,117	02/01/77	Merrifield et al.	260	45.9	06/06/75
	E	4,162,355	07/24/79	Tsibris	526	293	06/30/76
	F	4,171,412	10/16/79	Coupek et al.	525	329	04/17/75
	G	4,175,183	11/20/79	Ayers	536	57	05/24/78
	H	4,177,038	12/04/79	Biebricher et al.	8	192	05/17/77
	I	4,178,439	12/11/79	Ayers et al.	536	59	03/01/77
	J	4,179,402	12/18/79	Kim et al.	252	431	05/15/78
	K	4,180,524	12/25/79	Reusser et al.	585	644	02/16/78
	L	4,241,537	12/30/80	Wood	47	77	05/10/79
	M	4,282,287	08/04/81	Giese	428	407	01/24/80
	N	4,351,760	09/28/82	Khanna et al.	260	112	09/07/79
	O	4,439,585	03/27/84	Gould et al.	525	127	09/2/82
	P	4,485,227	11/27/84	Fox	528	61	06/16/83
	Q	4,507,230	03/26/85	Tam et al.	260	112.5	05/12/82
	R	4,542,102	09/17/85	Dattagupta et al.	435	6	07/05/83
	S	4,562,157	12/31/85	Lowe et al.	435	291	05/25/84
	T	4,569,981	02/11/86	Wenzel et al.	528	67	07/06/81
	U	4,681,870	07/21/87	Balint, Jr. et al.	502	403	01/11/85
	V	4,708,871	11/24/87	Geysen	424	1.861	11/08/94
	W	4,734,454	03/29/88	Aihara et al.	524	555	03/05/86
	X	4,762,881	08/09/88	Kauer	525	54.11	01/09/87
	Y	4,777,128	10/11/88	Lippa	435	5	05/27/86
	Z	4,833,092	05/23/89	Geysen	436	501	12/22/86
	AA	4,885,250	12/05/89	Eveleigh et al.	435	181	03/02/87
	AB	4,894,443	01/16/90	Greenfield et al.	530	388	09/07/84
	AC	4,927,879	05/22/90	Pidgeon	525	54.1	10/24/88
	AD	4,927,923	05/22/90	Mathis et al.	540	456	09/20/85
	AE	4,931,498	06/05/90	Pidgeon	525	54.1	02/25/88
	AF	4,954,444	09/04/90	Eveleigh et al.	435	181	12/17/87
	AG	5,084,398	01/28/92	Huston et al.	436	535	10/23/90
	AH	5,092,992	03/03/92	Crane et al.	210	198.2	05/17/91
	AI	5,160,378	11/03/92	Tuunanen et al.	134	25.1	09/21/90
	AJ	5,162,508	11/10/92	Lehn et al.	534	15	07/26/91
	AK	5,194,392	03/16/93	Geysen	436	518	06/21/90
	AL	5,198,346	03/30/93	Ladner et al.	435	69.1	07/26/90
	AM	5,279,943	01/18/94	Mathis et al.	435	7.32	01/19/93
	AN	5,328,603	07/12/94	Velander et al.	210	198.2	08/19/92
	AO	5,334,640	08/02/94	Desai et al.	524	56	04/08/92
	AP	5,389,449	02/14/95	Afeyan et al.	428	523	01/05/93

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. METHOD FOR DESIGNING LINEAR EPITOPES AND ALGORITHM THEREFOR AND POLYPEPTIDE EPITOPES

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17102-011001 / 1760	Application No. 10/806,924
	Applicant Mario Geysen, et. al		
	Filing Date March 22, 2004	Group Art Unit 1645	

U.S. Patent Documents							
	AQ	5,403,750	04/04/95	Braatz et al.	436	531	04/08/91
	AR	5,416,193	05/16/95	Desai	530	334	04/30/93
	AS	5,432,018	07/11/95	Dower et al.	435	5	06/20/91
	AT	5,443,816	08/22/95	Zamora et al.	424	1.69	02/20/92
	AU	5,451,683	09/19/95	Barrett et al.	548	302.7	04/23/93
	AV	5,469,000	11/21/95	Geysen	307	39	03/10/92
	AW	5,494,810	02/27/96	Barany et al.	435	91.52	11/22/94
	AX	5,512,493	04/30/96	Mathis et al.	436	537	05/26/93
	AY	5,539,084	03/16/93	Geysen	436	518	06/21/90
	AZ	5,547,839	08/20/96	Dower et al.	435	6	12/06/90
	BA	5,595,915	01/21/97	Geysen	436	518	06/01/94
	BB	5,612,474	03/18/97	Patel	536	27.14	07/30/94
	BC	5,625,048	04/29/97	Tsien et al.	536	23.4	11/10/94
	BD	5,741,462	04/21/98	Nova et al.	422	68.1	04/25/95
	BE	5,744,305	04/28/98	Fodor et al.	435	6	06/06/95
	BF	5,751,629	05/12/98	Nova et al.	365	151	06/07/95
	BG	5,783,674	07/21/98	Geysen	530	413	06/07/95
	BH	5,789,577	08/04/98	Geysen	536	25.31	12/06/96
	BI	5,800,996	09/01/98	Lee et al.	435	6	10/04/96
	BJ	5,811,231	09/22/98	Farr et al.	435	6	07/21/95
	BK	5,863,727	01/26/99	Lee et al.	435	6	05/03/96
	BL	5,874,214	02/23/99	Nova et al.	435	6	10/03/95
	BM	5,888,732	03/30/99	Hartley et al.	435	6	06/07/96
	BN	5,916,804	06/29/99	Bushman	435	325	04/17/98
	BO	5,925,562	07/20/99	Nova et al.	435	287.1	06/07/95
	BP	5,948,677	09/07/99	Jarvik	435	325	12/09/96
	BQ	5,961,923	10/05/99	Nova et al.	422	68.1	09/30/96
	BR	5,972,639	10/26/99	Parandoosh	435	29	07/24/97
	BS	5,998,204	12/07/99	Tsien et al.	435	325	03/14/97
	BT	5,998,577	12/07/99	Geysen	530	300	10/29/92
	BU	6,013,487	01/11/00	Mitchell	435	91.3	12/13/96
	BV	6,017,496	01/25/00	Nova et al.	422	68.1	09/06/96
	BW	6,025,129	02/15/00	Nova et al.	435	6	12/05/95
	BX	6,054,468	04/25/00	Geerts et al.	514	326	11/24/98
	BY	6,087,186	07/11/00	Cargill et al.	436	518	02/02/95
	BZ	6,096,717	08/01/00	Jarvik	514	44	11/08/96
	CA	6,117,679	09/12/00	Stemmer	435	440	03/25/96
	CB	6,140,129	10/31/00	Cox et al.	435	477	09/16/98
	CC	6,143,557	11/07/00	Hartley et al.	435	320.1	01/20/99
	CD	6,151,973	11/28/00	Geysen et al.	73	865.8	01/29/99
	CE	6,165,709	12/26/00	Friend et al.	435	4	02/26/98
	CF	6,171,861	01/09/01	Hartley et al.	435	455	01/12/98
	CG	6,174,708	01/16/01	Sodoyer et al.	435	91.1	01/22/99
	CH	6,229,376	05/08/01	Geysen	327	403	01/06/00

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. METHOD FOR DESIGNING LINEAR EPITOPES AND ALGORITHM THEREFOR AND POLYPEPTIDE EPITOPES	

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17102-011001 / 1760	Application No. 10/806,924
		Applicant Mario Geysen, et. al	
		Filing Date March 22, 2004	Group Art Unit 1645

U.S. Patent Documents							
	CI	6,232,107	05/15/01	Bryan et al.	435	189	03/26/99
	CJ	6,238,923	05/29/01	Passmore et al.	435	440	11/01/99
	CK	6,242,419	06/05/01	Strachan et al.	514	12	08/26/99
	CL	6,247,995	06/19/01	Bryan	446	473	02/06/96
	CM	6,329,209	12/11/01	Wagner et al.	436	518	07/14/99
	CN	6,333,155	12/25/01	Lockhart et al.	435	6	12/18/98
	CO	6,365,418	04/02/02	Wagner et al.	436	518	05/18/00
	CP	6,403,309	06/11/02	Iris et al.	435	6	03/19/99
	CQ	6,406,840	06/18/02	Li et al.	435	1.3	12/17/99
	CR	6,406,921	06/18/02	Wagner et al.	436	518	07/14/98
	CS	6,461,807	10/08/02	Friend et al.	435	4	11/10/00
	CT	6,468,476	10/22/02	Friend et al.	422	68.1	10/27/99
	CU	6,475,807	11/02/02	Geysen	436	518	06/26/98
	CV	6,475,808	11/05/02	Wagner et al.	436	518	07/14/99
	CW	6,475,809	11/05/02	Wagner et al.	436	518	05/12/00
	CX	6,476,662	11/05/02	Geysen	327	403	04/23/01
	CY	6,576,472	06/10/03	Geysen	436	161	06/26/00
	CZ	6,576,478	06/10/03	Wagner et al.	436	518	07/14/98
	DA	6,582,726	06/24/03	Geysen et al.	424	451	06/21/00
	DB	6,582,969	06/24/03	Wagner et al.	436	518	05/12/00
	DC	6,584,411	06/24/03	Geysen	702	22	07/26/00
	DD	6,596,545	07/22/03	Wagner et al.	436	518	07/14/99
	DE	6,630,358	10/07/03	Wagner et al.	436	518	05/12/00
	DF	6,635,757	10/21/03	Kumble et al.	536	124	09/14/01
	DG	2001/0045860	11/29/01	Geysen	327	403	04/23/01
	DH	2002/0058269	05/16/02	Nock et al.	435	6	06/04/01
	DI	2002/0058335	05/16/02	Strachan et al.	435	325	03/28/01
	DJ	2002/0068272	06/06/02	Larocca et al.	435	5	05/24/01
	DK	2002/0106702	08/08/02	Wagner et al.	435	7.9	03/29/02
	DL	2002/0110932	08/15/02	Wagner et al.	436	518	03/29/02
	DM	2002/0110933	08/15/02	Wagner et al.	436	518	03/29/02
	DN	2002/0115225	08/15/02	Wagner et al.	436	518	03/29/02
	DO	2002/0137053	09/26/02	Ault-Riche et al.	435	6	07/18/01
	DP	2003/0003599	01/02/03	Wagner et al.	436	518	03/26/02
	DQ	2003/0022835	01/30/03	Watson et al.	514	12	05/20/02
	DR	2003/0040471	02/27/03	Watson et al.	514	12	05/24/01
	DS	2003/0094992	05/22/03	Geysen	327	403	10/15/02
	DT	2003/0100018	05/29/03	Geysen et al.	435	7.1	08/06/02
	DU	2003/0138973	07/24/03	Wagner et al.	436	518	12/23/02
	DV	2003/0143612	07/31/03	Ault-Riche et al.	435	6	12/27/02
	DW	2003/0143676	07/31/03	Strachan et al.	435	69.1	05/28/02
	DX	2003/0211536	11/13/03	Geysen	435	7.1	10/23/02
	DY	2004/0014227	01/22/04	Frederick et al.	436	43	03/14/03
	DZ	2004/0048311	03/11/04	Ault-Riche et al.	435	7.1	01/24/03

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. METHOD FOR DESIGNING LINEAR EPITOPES AND ALGORITHM THEREFOR AND POLYPEPTIDE EPITOPES	



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	Applicant Mario Geysen, et. al			
	Filing Date March 22, 2004		Group Art Unit 1645	

U.S. Patent Documents							
	EA	2004/0054286	03/18/04	Audain et al.	600	449	04/24/03

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	EB	00/04382	01/27/00	PCT				
	EC	00/04389	01/27/00	PCT				
	ED	00/04390	01/27/00	PCT				
	EE	00/24937	05/04/00	PCT				
	EF	00/44490	08/03/00	PCT				
	EG	00/61281	10/19/00	PCT				
	EH	01/02600	01/11/01	PCT				
	EI	01/13119	02/22/01	PCT				
	EJ	01/14589	03/01/01	PCT				
	EK	0 138 855	05/02/85	EP				
	EL	01/40148	06/07/01	PCT				
	EM	0 190 205	08/13/85	EP				
	EN	02/06834	01/24/02	PCT				
	EO	02/054085	07/11/02	PCT				
	EP	02/079751	10/10/02	PCT				
	EQ	02/089055	11/07/02	PCT				
	ER	03/062402	07/31/03	PCT				
	ES	04/039962	05/13/04	PCT				
	ET	04/042019	05/21/04	PCT				
	EU	0 628 570	12/14/94	EP				
	EV	84/03506	09/13/84	PCT				
	EW	86/00991	02/13/86	PCT				
	EX	86/03840	07/03/86	PCT				
	EY	86/06487	11/06/86	PCT				
	EZ	91/04266	04/04/91	PCT				

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		Applicant Mario Geysen, et. al	
		Filing Date March 22, 2004	Group Art Unit 1645

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	FA	92/01225	01/23/92	PCT				
	FB	94/03564	02/17/94	PCT				
	FC	94/11388	05/26/94	PCT				
	FD	95/18148	07/06/95	PCT				
	FE	96/20947	07/11/96	PCT				
	FF	97/37953	10/16/97	PCT				
	FG	98/15825	04/16/98	PCT				
	FH	98/23950	06/04/98	PCT				
	FI	98/24810	06/11/98	PCT				
	FJ	98/31732	07/23/98	PCT				
	FK	99/19515	04/22/99	PCT				
	FL	99/32663	07/01/99	PCT				
	FM	99/39210	08/05/99	PCT				
	FN	99/60007	11/25/99	PCT				
	FO	99/63080	12/09/99	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)		
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	FP	"IUPAC-IUB Commission on Biochemical Nomenclature Symbols for Amino-Acid Derivatives and Peptides Recommendations (1971)", Biochem., 11(9):1726-1732 (1972)
	FQ	Aaskov et al., "Serologically defined linear epitopes in the envelope protein of dengue 2 (Jamaica strain 1409)," Arch Virol. 105(3-4):209-21 (1989)
	FR	Abedi, M.R. et al., "Green Fluorescent Protein as a Scaffold for Intracellular Presentation of Peptides", Nuc. Acids Res., 26(2):623-630 (1998)
	FS	Alber, T., "Structure of the leucine zipper", Current Opinion in Genetics and Development, 2:205-210 (1992)
	FT	Alexander, H. et al., "Altering the antigenicity of proteins", Proc. Nat. Acad. Sci. USA, 89:3352-3356.
	FU	Anderson, J.M. et al., "Characterization of ZO-1, a Protein Component of the Tight Junction from Mouse Liver and Madin-Darby Canine Kidney Cells", J. Cell Biol., 106(4):1141-1149 (1988)

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	FV	Arndt, K.M. et al., "A heterodimeric coiled-coil peptide pair selected in vivo from a designed library-versus-library ensemble", J. Mol. Biol., 295(3):627-639 (2000)
	FW	Arndt, K.M. et al., "Helix-stabilized Fv (hsFv) Antibody Fragments: Substituting the Constant Domains of a Fab Fragment for a Heterodimeric Coiled-coil Domain", J. Mol. Biol., 312 :221-228 (2001)
	FX	Ault-Riche, D.B. and A. Kornberg, "Definitive Enzymatic Assays in Polyphosphate Analysis", Prog. Mol. Subcell Biol., 23:241-252 (1999)
	FY	Ault-Riche, D.B. et al., "Novel Assay Reveals Multiple Pathways Regulating Stress-Induced Accumulations of Inorganic Polyphosphate in Escherichia coli", J. Bacteriol. 180(7):1841-1847 (1998)
	FZ	Ault-Riche, D.B. et al., "A single mutation at lysine 426 of human placental S-adenosylhomocysteine hydrolase inactivates the enzyme", J. Biol. Chem., 269(50):31472-31478 (1994)
	GA	Ault-Riche, D.B. et al., "Effects of 4'-modified analogs of aristeromycin on the metabolism of S-adenosyl-L-homocysteine in murine L929 cells", Mol. Pharmacol. 43(6):989-997 (1993)
	GB	Bagel, O. et al., "Subfemtomolar Determination of Alkaline Phosphatase at a Disposable Screen-Printed Electrode Modified with a Perfluorosulfonated Ionomer Film", Anal. Chem., 69(22):4688-4694 (1997)
	GC	Baldwin, J.J. et al., "Synthesis of a Small Molecule Combinatorial Library Encoded with Molecular Tags", J. Am. Chem. Soc., 117:5588-5589 (1995)
	GD	Baldwin, T.O. et al., "Cloning of the Luciferase Structural Genes from Vibrio harveyi and Expression of Bioluminescence in Escherichia coli", Biochem., 23:3663-3667 (1984)
	GE	Barany, F., "The Ligase Chain Reaction in a PCR World", PCR Methods and Applications 1:5-16 (1991)
	GF	Batra, J.K. et al., "Insertion of Constant Region Domains of Human IgG1 into CD4-PE40 Increases its Plasma Half-life", Molecular Immunology, 30(4):379-386 (1993)
	GG	Bauer, C.G. et al., "Zeptomole-detecting biosensor for alkaline phosphatase in an electrochemical immunoassay for 2,4-dichlorophenoxyacetic acid", Anal. Chem. 68(15):2453-2458 (1996)
	GH	Bäumert, H.G. and H. Fasold, "Cross-Linking Techniques", Methods in Enzymology 172: 584-609 (1989)
	GI	Beatch, M. et al., "The Tight Junction Protein ZO-2 Contains Three PDZ (PSD-95/Discs-Large/ZO-1) Domains and an Alternatively Spliced Region", J. Biol. Chem., 271(42):25723-25726 (1996)
	GJ	Behar, V. et al., "Photoaffinity Cross-linking Identifies Differences in Interactions of an Agonist and an Antagonist with the Parathyroid Hormone/Parathyroid Hormone-related Protein Receptor", J. Biol. Chem. 275(1):9-17 (2000)
	GK	Berg, R.H. et al., "Long-Chain Polystyrene-Grated Polyethylene Film Matrix: A New Support for Solid-Phase Peptide Synthesis", J. Am. Chem. Soc., 111:8024-8026 (1989)
	GL	Berg, R.H. et al., "Peptide Synthesis on Polystyrene-Grafted Polyethylene Sheets", IN Pept. 1988, Proc. Eur. Pept. Symp., 20th, Jung, G. et al. (Eds), pp. 196-198 (1989)
	GM	Berg, R.H. et al., "Polystyrene-Grafted Polyethylene: Design of Film and Felt Matrices for

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	GN	Berger, J. et al., "Secreted placental alkaline phosphatase: a powerful new quantitative indicator of gene expression in eukaryotic cells", Gene, 66:1-10 (1988)
	GO	Besemer, J. et al., "Cross-linking of human neutrophil surface proteins to iodinated interleukin 8 or neutrophil activating peptide-2 results in at least four separable proteins", Cytokine, 5(5):512-519 (1993)
	GP	Bhardwaj V. et al., "Degenerate recognition of a dissimilar antigenic peptide by myelin basic protein-reactive T cells. Implications for thymic education and autoimmunity," J Immunol. 151(9):5000-10 (1993)
	GQ	Bhardwaj V. et al., "Subjugation of dominant immunogenic determinants within a chimeric peptide," Eur J Immunol. 22(8):2009-16 (1992)
	GR	Bhardwaj V. et al., "T cell determinant structure of myelin basic protein in B10.PL, SJL/J, and their F1S," J Immunol. 152(8):3711-9 (1994)
	GS	Boman, H.G. "Peptide Antibiotics and Their Role in Innate Immunity", Annu. Rev. Immunol., 13: 61-92 (1995)
	GT	Braisted, A.C. and J.A. Wells, "Minimizing a Binding Domain from Protein A", Proc. Natl. Acad. Sci. U.S.A., 93:5688-5692 (1996)
	GU	Bray, A.M. et al. "The Simultaneous Multiple Production of Solution Phase Peptides; Assessment of the Geysen Method of Simultaneous Peptide Synthesis" Tetrahedron Letters, 31:5811-5814 (1990)
	GV	Bray, A.M. et al., "Direct Cleavage of Peptides from a Solid Support into Aqueous Buffer. Application in Simultaneous Multiple Peptide Synthesis", J. Org. Chem., 56:6659-6666 (1991)
	GW	Broach, J.R. et al., "Recombination within the Yeast Plasmid 2 $\mu$ Circle is Site-Specific", Cell, 29:227-234 (1982)
	GX	Brown, B.B. et al., "A single-bead decode strategy using electrospray ionization mass spectrometry and a new photolabile linker: 3-Amino-3-(2-nitrophenyl) propionic acid", Molecular Diversity, 1(1):4-12 (1995).
	GY	Brown, L.E. et al., "Extension of a Minimal T Cell Determinant Allows Relaxation of the Requirement for Particular Residues Within the Determinant", International Immunology 3(12):1307-1313 (1991)
	GZ	Budisa et al., "Residue-specific bioincorporation of non-natural, biologically active amino acids into proteins as possible drug carriers: Structure and stability of the <i>per</i> -thiaproline mutant of annexin V," Proc. Natl. Acad. Sci. USA 95: 455-459 (1998)
	HA	Bulyk, M.L. et al., "Exploring the DNA-binding specificities of zinc fingers with DNA microarrays", Proc. Natl. Acad. Sci. U.S.A. 98(13):7158-7163 (2001)
	HB	Bungy Poor Fard G.A. et al., "T cell epitopes of the major fraction of rye grass Lolium perenne (Lol p I) defined using overlapping peptides in vitro and in vivo. I. Isoallergen clone1A," Clin Exp Immunol. 94(1):111-6 (1993)
	HC	Bunin, B.A. et al., "The Combinatorial Synthesis and Chemical and Biological Evaluation of a 1,4-Benzodiazepine Library", Proc. Natl. Acad. Sci. U.S.A., 91:4708-4712 (1994).
	HD	Burkot, T.R. et al., "Fine specificities of monoclonal antibodies against the Plasmodium

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		falciparum circumsporozoite protein: recognition of both repetitive and non-repetitive regions," Parasite Immunol. 13(2):161-70 (1991)
	HE	Burrows, S.R. et al., "The specificity of recognition of a cytotoxic T lymphocyte epitope," Eur J Immunol. 22(1):191-5 (1992)
	HF	Cantor, E.J. and S. Chong, "Intein-mediated Rapid Purification of Cre Recombinase", Prot. Exp. Purific. 22(1):135-140 (2001)
	HG	Cardullo, R.A. et al., "Detection of nucleic acid hybridization by nonradiative fluorescence resonance energy transfer", Proc. Natl. Acad. Sci. U.S.A. 85:8790-8794 (1988)
	HH	Carlsson, J. et al., "Protein thiolation and reversible protein-protein conjugation", Biochem. J., 173(3):723-737; (1978)
	HI	Caruthers, M.H. et al., "Deoxyoligonucleotide Synthesis via the Phosphoramidite Method", Gene Amplif. Anal., 3:1-26 (1983).
	HJ	Champion, B.R. et al., "Identification of a thyroxine-containing self-epitope of thyroglobulin which triggers thyroid autoreactive T cells," J Exp Med. 174(2):363-70 (1991)
	HK	Changelian, P.S. et al., "Structure of the NGFI-A gene and detection of upstream sequences responsible for its transcriptional induction by nerve growth factor," Proc. Natl. Acad. Sci. U.S.A., 86:377-381 (1989).
	HL	Chao, H. et al., "Use of a heterodimeric coiled-coil system for biosensor application and affinity purification", J. Chromatogr. B Biomed. Sci. Appl. 715(1):307-329 (1998)
	HM	Chen, A. et al., "Tyrosine 27 of the specificity polypeptide of EcoKI can be UV crosslinked to a bromodeoxyuridine-substituted DNA target sequence", Nucleic. Acids. Res., 23(7):1177-1183 (1995)
	HN	Chen, C. et al., "'Analogous' Organic Synthesis of Small-Compound Libraries: Validation of Combinatorial Chemistry in Small-Molecule Synthesis", J. Am. Chem. Soc., 116:2661-2662 (1994)
	HO	Chin et al., "An Expanded Eukaryotic Genetic Code," Science 301: 964-967 (2003)
	HP	Chmura, A.J. et al., "Antibodies with Infinite Affinity", Proc. Natl. Acad. Sci. USA, 98(15):8480-8484 (2001)
	HQ	Chmura, A.J. et al., "Electrophilic chelating agents for irreversible binding of metal chelates to engineered antibodies", J. Control. Release, 78(1-3):249-258 (2002)
	HR	Christmann, A. et al., "The cystine knot of a squash-type protease inhibitor as a structural scaffold for Escherichia coli cell surface display of conformationally constrained peptides", Protein Eng., 12(9):797-806 (1999)
	HS	Coljee, V.W. et al., "Seamless gene engineering using RNA- and DNA-overhang cloning", Nat. Biotechnol., 18(7):789-791 (2000)
	HT	Comb, M. et al., "A cyclic AMP-and phorbol ester-inducible DNA element", Nature, 323:353-356 (1986)
	HU	Cox, J.C. and A.D. Ellington, "Automated selection of anti-protein aptamers", Bioorg Med Chem., 9(10):2525-2531 (2001)
	HV	Cullen, B.R. and M.H. Malim, "Secreted Patental Alkaline Phosphatase as a Eukaryotic Reporter Gene", Methods in Enzymology 216: 362-368 (1992)
	HW	Cumber, A.J. et al., "Structural Features of the Antibody-A Chain Linkage that Influences the Activity and Stability of Ricin A Chain Immunotoxins", Bioconj. Chem., 3:397-401

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		(1992)
	HX	Cwirla, S.E. et al., "Peptides on phage: A vast library of peptides for identifying ligands", Proc. Natl. Acad. Sci. U.S.A., 87:6378-6382 (1990).
	HY	Datta, H.J. et al., "Triplex-induced Recombination in Human Cell-free Extracts", J. Biol. Chem., 276(21):18018-18023 (2001)
	HZ	Dawe, K.I., et al., "Unique role of thyroxine in T cell recognition of a pathogenic peptide in experimental autoimmune thyroiditis," Eur J Immunol. 26(4):768-72 (1996)
	IA	De Marini, D.J. et al., "Oligonucleotide-Mediated, PCR-Independent Cloning by Homologous Recombination", Biotechniques, 30(3):520-523 (2001)
	IB	De Wet, J.R. et al., "Firefly Luciferase Gene: Structure and Expression in Mammalian Cells," Molecular and Cellular Biology, 7(2): 725-737 (1987).
	IC	Della Ciana, L. et al., "Highly sensitive amperometric measurement of alkaline phosphatase activity with glucose oxidase amplification", J. Electroanal. Chem., 382: 129-135 (1995)
	ID	Devlin, J.J. et al., "Random Peptide Libraries: A Source of Specific Protein "Binding Molecules", Science, 249:404-406 (1990)
	IE	DeWitt, S.H. et al., "'Diversomers': An Approach to Nonpeptide, Nonoligomeric Chemical Diversity", Proc. Natl. Acad. Sci. U.S.A., 90:6909-6913 (1993)
	IF	Dong, H. et al., "Tumor-associated B7-H1 promotes T-cell apoptosis: A potential mechanism of immune evasion", Nature Medicine, 8(8): 793-800 (2002)
	IG	dos Remedios, C.G. and P.D.J. Moens, "Fluorescence resonance energy transfer measurements of distances in actin and myosin. A critical evaluation", Journal of Muscle Research and Cell Motility, 8: 97-117 (1987)
	IH	dos Remedios, C.G. et al., "Fluorescence Resonance Energy Transfer Spectroscopy is a Reliable "Ruler" for Measuring Structural Changes in Proteins", Journal of Structural Biology, 115: 175-185 (1995)
	II	Dower, W.J. and S.P.A. Fodor, "The Search for Molecular Diversity (II): Recombinant and Synthetic Randomized Peptide Libraries", Annual Reports in Medicinal Chemistry, 26:271-280 (1991).
	IJ	Duncan, R.J.S. et al., "A new reagent which may be used to introduce sulfhydryl groups into proteins, and its use in the preparation of conjugates for immunoassay", Analytical Biochemistry, 132: 68-73 (1983)
	IK	Edmundson, A.B. et al., "Principles and pitfalls in designing site-directed peptide ligands," Proteins. 16(3):246-67 (1993)
	IL	Edmundson, A.B. et al., "Binding of peptides to proteins: an exercise in molecular design," Ciba Found Symp. 158:213-30 (1991)
	IM	Edmundson, A.B. et al., "Binding of synthetic peptides by a human monoclonal IgM with an unusual combining site structure," J Mol Recognit. 14(4):229-38 (2001)
	IN	Ellem, K.A. et al., "A monoclonal antibody raised against an undecapeptide sequence from human transforming growth factor alpha recognizes a hexapeptide epitope in mitotic centrosomes," Lab Invest. 63(5):690-7 (1990)
	IO	Ellington, A.D. and J.W. Szostak, "Selection in vitro of single-stranded DNA molecules that fold into specific ligand-binding structures", Nature, 355:850-852 (1992)

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	IP	Engbrecht, J. and M. Silverman, "Identification of genes and gene products necessary for bacterial bioluminescence", Proc. Natl. Acad. Sci. U.S.A., 81:4154-4158 (1984)
	IQ	Engler, L.E. et al., "The energetics of the interaction of BamHI endonuclease with its recognition site GGATCC", J. Mol. Biol. 307(2):619-636 (2001)
	IR	Epping, R.J. et al., "An epitope recognised by inhibitory monoclonal antibodies that react with a 51 kilodalton merozoite surface antigen in Plasmodium falciparum," Mol Biochem Parasitol. 28(1):1-10 (1988)
	IS	Ewing, C. et al. "Antibody activity in ankylosing spondylitis sera to two sites on HLA B27.1 at the MHC groove region (within sequence 65-85), and to a Klebsiella pneumoniae nitrogenase reductase peptide (within sequence 181-199)," J Exp Med. 171(5):1635-47 (1990)
	IT	Fahrer, A.M. et al., "Analysis of the requirements for class II-restricted T cell recognition of a single determinant reveals considerable diversity in the T cell response and degeneracy of peptide binding to I-Ed," J Immunol. 155(6):2849-57 (1995)
	IU	Fairclough, R.H. and C.R. Cantor, "The use of singlet-singlet energy transfer to study macromolecular assemblies", Methods in Enzymology, 48: 347-379 (1978)
	IV	Fanning, A.S. et al., "The tight junction protein ZO-1 establishes a link between the transmembrane protein occludin and the actin cytoskeleton", Journal of Biological Chemistry, 273(45): 29745-29753 (1998)
	IW	Fattom, A. et al., "Comparative Immunogenicity of Conjugates Composed of the Staphylococcus aureus Type 8 Capsular Polysaccharide Bound to Carrier Proteins by Adipic Acid Dihydrazide or N-Succinimidyl-3-(2-Pyridyldithio)propionate", Infection & Immunity, 60(2):584-589; (1992).
	IX	Fieser, T.M. et al., "Influence of protein flexibility and peptide conformation on reactivity of monoclonal anti-peptide antibodies with a protein alpha-helix", Proc. Natl. Acad. Sci USA, 84(23):8568-8572 (1987)
	IY	Fink, J.S. et al., "The CGTCA sequence motif is essential for biological activity of the vasoactive intestinal peptide gene cAMP-regulated enhancer," Proc. Natl. Acad. Sci. U.S.A., 85:6662-6666 (1988).
	IZ	Fodor, S.P.A. et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis", Science, 251:767-773, (1991)
	JA	Forest, K.T. et al., "Assembly and antigenicity of the Neisseria gonorrhoeae pilus mapped with antibodies", Infection and Immunity, 64(2):644-652 (1996)
	JB	Gallop, M.A. et al., "Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries", J. Med. Chem., 37(9):1233-1251 (1994).
	JC	Gammon, G. et al., "T cell determinant structure: cores and determinant envelopes in three mouse major histocompatibility complex haplotypes", J. Exp. Med., 173:609-617 (1991)
	JD	Gassmann, M. et al., "Efficient production of chicken egg yolk antibodies against a conserved mammalian protein", FASEB J., 4(8):2528-2532 (1990)
	JE	Getzoff, E.D et al., "The Chemistry and Mechanism of Antibody Binding to Protein Antigens", Advances in Immunology, 43:1-98 (1988)
	JF	Getzoff, E.D. et al., "Mechanisms of Antibody Binding to a Protein", Science, 235(4793):1191-1196 (1987)

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	JG	Geysen, H.M. et al., "The delineation of peptides able to mimic assembled epitopes," Ciba Found Symp. 119:130-49 (1986)
	JH	Geysen, H.M. et al., "Combinatorial compound libraries for drug discovery: an ongoing challenge," Nat Rev Drug Discov. 2(3):222-30 (2003)
	JI	Geysen, H.M. et al., "Molecular technology: peptide epitope mapping and the pin technology," Southeast Asian J Trop Med Public Health. 21(4):523-33 (1990)
	JJ	Geysen, H.M. et al., "Strategies for epitope analysis using peptide synthesis", J. Immunological Methods, 102:259-274 (1987)
	JK	Geysen, H.M. "Antigen-antibody interactions at the molecular level: adventures in peptide synthesis", Immunology Today, 6(12):364-369 (1985)
	JL	Geysen, H.M. et al., "A Priori Delineation of a Peptide Which Mimics a Discontinuous Antigenic Determinant", Molecular Immunology, 23(7):709-715 (1987)
	JM	Geysen, H.M. et al., "Chemistry of Antibody Binding to a Protein", Science, 235(4793):1184-1190 (1987)
	JN	Geysen, H.M. et al., "Cognitive Features of Continuous Antigenic Determinants", J. Molecular Recognition, 1(1):32-41. (1988)
	JO	Geysen, H.M. et al., "Isotope or mass encoding of combinatorial libraries", Chemistry & Biology, 3(8):679-688 (1996)
	JP	Geysen, H.M. et al., "Small Peptides Induce Antibodies with a Sequence and Structural Requirement for Binding Antigen Comparable to Antibodies Raised Against the Native Protein", Proc. Natl. Acad. Sci. USA, 82(1):178-182 (1985)
	JQ	Geysen, H.M. et al., "Use of peptide synthesis to probe viral antigens for epitopes to a resolution of a single amino acid", Proc. Natl. Acad. Sci. U.S.A., 81:3998-4002 (1984).
	JR	Geysen, H.M., and Mason, T.J., "Screening chemically synthesized peptide libraries for biologically-relevant molecules", Bioorg. Med. Chem. Lett., 3(3):397-404 (1993)
	JS	Geysen, H.M., et al., "Peptides Which Mimic Carbohydrate Antigens", Towards Better Carbohydrate Vaccines (eds Bell, R. et al.) pp 103-118 (1987)
	JT	Ghahroudi, M.A. et al., "Selection and identification of single domain antibody fragments from camel heavy-chain antibodies", FEBS Letters, 414:521-526 (1997)
	JU	Ghosh, R.N. et al., "Cell-Based, High-Content Screen for Receptor Internalization, Recycling and Intracellular Trafficking", Biotechniques, 29(1): 170-175 (2000)
	JV	Goldmacher, V.S. et al., "Photoactivation of Toxin Conjugates", Bioconjugate Chemistry, 3:104-107 (1992)
	JW	Goodenough, D.A. et al., "Topological Distribution of Two Connexin32 Antigenic Sites in Intact and Split Rodent Hepatocyte Gap Junctions", J. Cell Biol., 107(5):1817-1824 (1988)
	JX	Gordon, G.W. et al., "Quantitative fluorescence resonance energy transfer measurements using fluorescence microscopy", Biophys J., 74: 2702-2713 (1998)
	JY	Gordon, R.D. et al., "Topographical localization of the C-terminal region of the voltage-dependent sodium channel from Electrophorus electricus using antibodies raised against a synthetic peptide," Proc. Natl. Acad. Sci. U.S.A., 84:308-12 (1987).
	JZ	Griffin, B.A. et al., "Specific Covalent Labeling of Recombinant Protein Molecules Inside Live Cells", Science, 281:269-272 (1998)
	KA	Guesdon, J.-L. et al., "The use of avidin-biotin interaction in immunoenzymatic techniques",

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		J. Histochem. Cytochem. 27(8):1131-1139 (1979).
	KB	Gupta, R.A. et al., "Limited Proteolysis of S-Adenosylhomocysteine Hydrolase: Implications for the Three-Dimensional Structure", Arch. Biochem. Biophys., 319(2):365-371 (1995).
	KC	Gupta, S. et al., "Simplified Gene-Fragment Phage Display System for Epitope Mapping", BioTechniques, 27(2):328-330, 332-334 (1999)
	KD	Hackeng, T.M. et al., "Total chemical synthesis of human matrix Gla protein", Protein Sci., 10(4): 864-870 (2001)
	KE	Hale, J.E., "Irreversible, Oriented Immobilization of Antibodies to Cobalt-Iminodiacetate Resin for Use as Immunoaffinity Media", Analytical Biochemistry, 231:46-49 (1995)
	KF	Hall, C.V. et al., "Expression and Regulation of Escherichia coli lacZ Gene Fusions in Mammalian Cells", Journal of Molecular and Applied Genetics, 2:101-109 (1983)
	KG	Hamers-Casterman, C. et al., "Naturally occurring antibodies devoid of light chains", Nature, 363(6428):446-8 (1993)
	KH	Hanes, J. and A. Plückthun, "In vitro selection and evolution of functional proteins by using ribosome display", Proc Natl. Acad. Sci. USA, 94(10):4937-4942 (1997)
	KI	Hay, F.C. et al., "Framework peptides from kappaIIb rheumatoid factor light chains with binding activity for aggregated IgG", Eur. J. Immunol., 21: 1837-1841 (1991)
	KJ	Hazum, E. et al., "A Photocleavable Protecting Group for the Thiol Function of Cysteine", Pept. Proc. Eur. Pept. Symp. 16th, Brunfeldt, K. (Ed), pp. 105-110 (1981)
	KK	Heim, R. and R.Y. Tsien, "Engineering green fluorescent protein for improved brightness, longer wavelengths and fluorescence resonance energy transfer", Current Biology, 6(2):178-182 (1996)
	KL	Hermann, T. and D.J. Patel, "Adaptive Recognition by Nucleic Acid Apatamers", Science 287:820-825 (2000)
	KM	Hill, R.J. et al., "Bands, interbands and puffs in native Drosophila polytene chromosomes are recognized by a monoclonal antibody to an epitope in the carboxy-terminal tail of histone H1," Chromosoma. 98(6):411-21 (1989)
	KN	Hodges, R.S., "De novo design of alpha-helical proteins: basic research to medical applications" Biochem Cell Biol. 74(2):133-154 (1996)
	KO	Holt, L.J. et al., "The use of recombinant antibodies in proteomics", Curr. Opin. Biotechnol. 11(5):445-449 (2000)
	KP	Hooper, N.M. et al., "Membrane protein secretases", Biochem. J., 321: 265-279 (1997)
	KQ	Hsu, S.-M. et al., "Use of avidin-biotin-peroxidase complex (ABC) in immunoperoxidase techniques: a comparison between ABC and unlabeled antibody (PAP) procedures", J. Histochem. Cytochem., 29(4):577-580 (1981)
	KR	Hsu, S.-M. et al., "A Comparative Study of the Peroxidase-antiperoxidase Method and an Avidin-Biotin Complex Method for Studying Polypeptide Hormones with Radioimmunoassay Antibodies", Am. Soc. Clin. Pathol., 75(5): 734-738 (1981)
	KS	Hsu, S.-M. et al., "The use of antiavidin antibody and avidin-biotin-peroxidase complex in immunoperoxidase technics", Am. J. Clin. Pathol., 75(6): 816-821 (1981)
	KT	Huber, J. et al., "Characterisation of high-affinity and low-affinity receptors for ciliary neurotrophic factor", Eur. J. Biochem. 218(3):1031-1039 (1993)
	KU	Hunter, T. "Protein Kinases and Phosphatases: The Yin and Yang of Protein

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		Phosphorylation and Signaling", Cell, 80: 225-236 (1995)
	KV	Huston, J.S. et al., "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin single-chain Fv analogue produced in Escherichia coli", Proc. Natl. Acad. Sci. USA, 85:5879-5883 (1988)
	KW	Hutchings PR, Cooke A, Dawe K, Champion BR, Geysen M, Valerio R, Roitt IM A thyroxine-containing peptide can induce murine experimental autoimmune thyroiditis. J Exp Med. 1992 Mar 1;175(3):869-72
	KX	Ill, C.R. et al., "A COOH-Terminal Peptide Confers Regiospecific Orientation and Facilitates Atomic Force Microscopy of an IgG1", Biophys. J., 64:919-924 (1993)
	KY	Isalan, M. et al., "A rapid, generally applicable method to engineer zinc fingers illustrated by targeting the HIV-1 promoter", Nat. Biotechnol. 19(7):656-660 (2001)
	KZ	Jameson, D.M. and W.H. Sawyer, "Fluorescence Anisotropy Applied to Biomolecular Interactions", Methods Enzymol., 246:283-300 (1995)
	LA	Jamieson, A.C. et al., "In Vitro Selection of Zinc Fingers with Altered DNA-Binding Specificity", Biochemistry, 33(19):5689-5695 (1994)
	LB	Jesaitis, L.A. and D.A. Goodenough, "Molecular characterization and tissue distribution of ZO-2, a tight junction protein homologous to ZO-1 and the Drosophila discs-large tumor suppressor protein", J. Cell Biol., 124(6):949-961 (1994)
	LC	Jung, G. and A.G. Beck-Sickinger, "Multiple Peptide Synthesis Methods and Their Applications", Angew. Chem. Int. Ed. Engl., 31(4):367-486 (1992)
	LD	Kara, U. et al., "Immune response to a synthetic peptide corresponding to an epitope of a parasitophorous vacuole membrane antigen from Plasmodium falciparum," J Immunol. 143(4):1334-9 (1989)
	LE	Karin, M. "Signal Transduction and Gene Control", Curr. Opin. Cell Biol., 3: 467-473 (1991)
	LF	Kawski, A. "Excitation Energy Transfer and its manifestation in Isotropic Media", Photochem Photobiol, 38(4): 487-508 (1983)
	LG	Kendall, J.M. and M.N. Badminton, "Aequorea victoria bioluminescence moves into an exciting new era", Trends in Biotechnology, 16:216-224 (1998)
	LH	Kennedy, J.F., "Immobilized Enzymes", Solid Phase Biochemistry, Analytical and Synthetic Aspects, Scouten (Ed.). 7:253-391 (1983)
	LI	Kent, S.B.H. and R.B. Merrifield, "Preparation and Properties of tert-Butyloxycarbonylaminoacyl-4-(oxymethyl)phenylacetamidomethyl-(Kel F-g-styrene) Resin, and Insoluble, Noncrosslinked Support for Solid Phase Peptide Synthesis", Israel J. Chem., 17:243-247 (1979)
	LJ	Kenworthy, A.K. "Imaging Protein-Protein Interactions Using Fluorescence Resonance Energy Transfer Microscopy", Methods, 24: 289-296 (2001)
	LK	Kick, E.K. and J.A. Ellman, "Expedient method for the solid-phase synthesis of aspartic acid protease inhibitors directed toward the generation of libraries", J. Med. Chem., 38(9):1427-1430 (1995)
	LL	Kiick, K.L. et al., "Incorporation of Azides into Recombinant Proteins for Chemoselective Modification by the Saudinger Ligation", Proc. Natl. Acad. Sci. U.S.A., 99(1):19-24 (2002)
	LM	Kim, J.-S. and C.O. Pabo, "Getting a Handhold on DNA: Design of Poly-zinc Finger Proteins with Femtomolar Dissociation Constants", Proc. Natl. Acad. Sci. U.S.A., 95:2812-

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		2817. (1998)
	LN	Köhler, G. and C. Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity", <i>Nature</i> , 256(5517):495-497 (1975)
	LO	Köhler, G. and C. Milstein, "Derivation of specific antibody-producing tissue culture and tumor lines by cell fusion", <i>Eur. J. Immunol.</i> , 6(7):511-519 (1976)
	LP	Koide, A. et al, "The Fibroneactin Type III Domain as a Scaffold for Novel Binding Proteins", <i>J. Mol. Biol.</i> , 284(4):1141-1151 (1998)
	LQ	Kondejewski, L.H. et al., "Dissociation of Antimicrobial and Hemolytic Activities in Cyclic Peptide Diastereomers by Systematic Alterations in Amphipathicity", <i>J. Biol. Chem.</i> , 274(19): 13181-13192 (1999)
	LR	Kornberg, A. et al., "Inorganic Polyphosphate: A Molecule of Many Functions", <i>Annu. Rev. Biochem.</i> , 68:89-125 (1999)
	LS	Kowal et al., "Exploiting unassigned codons in <i>Micrococcus luteus</i> for tRNA-based amino acid mutagenesis," <i>Nucleic Acids Research</i> 25(22): 4685-4689 (1997)
	LT	Krykbaev, R.A. et al., "Phage Display-selected Sequences of the Heavy-chain CDR3 Loop of the Anti-digoxin Antibody 26-10 Define a High Affinity Binding Site for Position 16-substituted Analogs of Digoxin", <i>J. Biol. Chem.</i> , 276(11):8149-8158 (2001)
	LU	Kucherlapati, R.S. et al., "Homologous Recombination in Monkey Cells and Human Cell-free Extracts", <i>Cold Spring Harb Symp Quant Biol.</i> , 49:191-197 (1984)
	LV	Kumar, V. et al., "Immunodominant framework region 3 peptide from TCR V beta 8.2 chain controls murine experimental autoimmune encephalomyelitis," <i>J Immunol.</i> 154(4):1941-50 (1995)
	LW	Kumble, K.D. "Protein microarrays: new tools for pharmaceutical development", <i>Anal. Bioanal. Chem.</i> , 377(5):812-819.(2003)
	LX	Kumble, K.D. and A. Kornberg, "Endopolyphosphatases for long chain inorganic polyphosphate in yeast and mammals", <i>J. Biol. Chem.</i> , 271(43):27146-27151 (1996)
	LY	Kumble, K.D. and A. Kornberg, "Inorganic Polyphosphate in Mammalian Cells and Tissues", <i>J. Biol. Chem.</i> , 270(11):5818-5822 (1995)
	LZ	Kumble, K.D. and J.K. Vishwanatha, "Immunoelectron microscopic analysis of the intracellular distribution of primer recognition proteins, annexin 2 and phosphoglycerate kinase, in normal and transformed cells", <i>J. Cell Sci.</i> , 99(4):751-758 (1991)
	MA	Kumble, K.D. et al., "Enhanced levels of annexins in pancreatic carcinoma cells of Syrian hamsters and their intrapancreatic allografts" <i>Cancer Res.</i> , 52(1):163-167 (1992).
	MB	Kumble, K.D. et al., "Phosphohistidyl active sites in polyphosphate kinase of <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 93(25):14391-14395.(1996)
	MC	Kumble, K.D. et al., "The role of primer recognition proteins in DNA replication: inhibition of cellular proliferation by antisense oligodeoxyribonucleotides", <i>J. Cell Sci.</i> , 101(1):35-41 (1992)
	MD	Ladurner, A.G. and A.R. Fersht, "Glutamine, Alanine or Glycine Repeats Inserted into the Loop of a Protein Have Minimal Effects on Stability and Folding Rate", <i>J. Mol. Biol.</i> , 273:330-337 (1997)
	ME	Landegren, U. et al., "A Ligase-Mediated Gene Detection Technique", <i>Science</i> , 241:1077-1080 (1988)

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	MF	Lee et al., "A Method for Preparing $\beta$ -hCG COOH Peptide-Carrier Conjugates of Predictable Composition," Mol. Immunol. 17: 749-756 (1985)
	MG	Lemamy, G.-J. et al., "High-affinity antibodies from hen's-egg yolks against human mannose-6-phosphate/insulin-like growth-factor-II receptor (M6P/IGFII-R): characterization and potential use in clinical cancer studies", Int. J. Cancer, 80(6):896-902 (1999)
	MH	Lemieux, G.A. and C.R. Bertozzi, "Chemoselective ligation reactions with proteins, oligosaccharides and cells", Trends Biotechnol., 16(12):506-513 (1998)
	MI	Lemmo, et al., "Characterization of an inkjet chemical microdispenser for combinatorial library synthesis", Anal. Chem., 69(4):543-551 (1997).
	MJ	Lerner, R.A., "Tapping the immunological repertoire to produce antibodies of predetermined specificity", Nature, 299:592-596 (1982)
	MK	Lew, A.M. et al., "A protective monoclonal antibody recognizes a linear epitope in the precursor to the major merozoite antigens of Plasmodium chabaudi adami", Proc. Natl. Acad. Sci. U.S.A., 86:3768-3772 (1989)
	ML	Limpaiboon, T. et al., "Characterization of a Plasmodium falciparum epitope recognized by a monoclonal antibody with broad isolate and species specificity," Southeast Asian J Trop Med Public Health. 22(2):284 (1991)
	MM	Limpaiboon, T. et al., "Characterization of a Plasmodium falciparum epitope recognized by a monoclonal antibody with broad isolate and species specificity," Southeast Asian J Trop Med Public Health. 21(3):388-96 (1990)
	MN	Lin, C. et al., "Introduction of sulfhydryl groups into proteins at carboxyl sites", Biochim. Biophys. Acta, 1038: 382-385 (1990)
	MO	Liu, Z.-G. et al. "An Efficient Method for Blunt-End Ligation of PCR Products", BioTechniques, 12(1):28-30 (1989)
	MP	Loetscher, P. et al., "Immobilization of Monoclonal Antibodies for Affinity Chromatography Using a Chelating Peptide", J. Chromatography, 595:113-119 (1992)
	MQ	Lohmann, T et al., "Immunodominant epitopes of glutamic acid decarboxylase 65 and 67 in insulin-dependent diabetes mellitus," Lancet. 343(8913):1607-8 (1994)
	MR	Lorthioir, O et al., "Single bead characterization using analytical constructs: application to quality control of libraries," Anal Chem. 73(5):963-70 (2001)
	MS	Luckow, V.A. et al., "Efficient Generation of Infectious Recombinant Baculoviruses by Site-Specific Transposon-Mediated Insertion of Foreign Genes into a Baculovirus Genome Propagated in Escherichia coli", J. Virol., 67(8):4566-4579 (1993)
	MT	MacGregor, G.R. et al., "Histochemical staining of clonal mammalian cell lines expressing E. coli beta galactosidase indicates heterogeneous expression of the bacterial gene", Somat. Cell Mol. Genet., 13(3):253-265 (1987)
	MU	Maeji, N.J. et al., "Systematic screening for bioactive peptides," Pept Res. 4(3):142-6 (1991)
	MV	Maeji, N.J. et al, "Simultaneous multiple synthesis of peptide-carrier conjugates," J Immunol Methods. 146(1):83-90 (1992)
	MW	Maeji, N.J. et al., "Grafted Supports Used with the Multipin Method of Peptide Synthesis", Reactive Polymers, 22:203-212 (1994)
	MX	Maeji, N.J. et al., "Multi-pin Peptide Synthesis Strategy for T Cell Determinant Analysis", J.

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		Immunol. Meth., 134:23-33 (1990)
	MY	Mahan, D.E. et al., "Phase change enzyme immunoassay", Anal. Biochem., 162:163-170 (1987)
	MZ	Martin, F. et al., "Affinity selection of a camelized Vh domain antibody inhibitor of hepatitis C virus NS3 protease", Protein Engineering, 10(5):607-614 (1997)
	NA	Matsubara, T. et al., "Selection of ganglioside GM1-binding peptides by using a phage library", FEBS Letters, 456(2):253-256 (1999)
	NB	Mátyus, L., "Fluorescence resonance energy transfer measurements on cell surfaces. A spectroscopic tool for determining protein interactions", J. Photochem. Photobiol. B: Biol., 12: 323-337 (1992)
	NC	Mayfield et al., "Expression and assembly of a fully active antibody in algae," Proc. Natl. Acad. Sci. USA 100(2): 438-442 (2003)
	ND	McNeil, P.L., "Incorporation of Macromolecules into Living Cells", Methods Cell Biol., 29:153-173 (1989)
	NE	Meh, D.A. et al., "Identification and Characterization of the Thrombin Binding Sites on Fibrin", J. Biol. Chem., 271(38):23121-23125 (1996)
	NF	Merrifield, R.B., "Solid-Phase Peptide Synthesis. III. An Improved Synthesis of Bradykinin", Biochem., 3(9):1385-1390 (1964)
	NG	Mitchell, A.R. et al., "A New Synthetic Route to tert-Butyloxycarbonylaminoacyl-4-(oxymethyl)phenylacetamidomethyl-resin, an Improved Support for solid-Phase Peptide Synthesis", J. Org. Chem., 43(14):2845-2852 (1978)
	NH	Mitchell, A.R. et al., "Preparation of Aminomethyl-Polystyrene Resin by Direct Amidomethylation", Tetrahedron Letters, 42:3795-3798 (1976)
	NI	Mitra, R.D. et al., "Fluorescence resonance energy transfer between blue-emitting and red-shifted excitation derivatives of the green fluorescent protein", Gene, 173(1):13-17 (1996)
	NJ	Miyawaki, A. et al., "Fluorescent indicators for Ca <sup>2+</sup> based on green fluorescent proteins and calmodulin", Nature, 388(6645):882-887 (1997)
	NK	Montminy, M.R. et al., "Identification of a cyclic-AMP-responsive element within the rat somatostatin gene", Proc. Natl. Acad. Sci., 83:6682-6686 (1986).
	NL	Mor, A., "Peptide-Based Antibiotics: A Potential Answer to Raging Antimicrobial Resistance", Drug Develop. Res., 50(3-4):440-447 (2000)
	NM	Mosbach, R. et al., "Immobilization of Enzymes to Various Acrylic Copolymers", Methods in Enzymology, 44:53-65 (1976)
	NN	Mücke, M. et al., "Imaging DNA Loops Induced by Restriction Endonuclease EcoRII", J. Biol. Chem., 275(39):30631-30637 (2000)
	NO	Mutch, D. et al., "Comprehensive T-cell epitope mapping of HIV-1 env antigens reveals many areas recognized by HIV-1-seropositive and by low-risk HIV-1-seronegative individuals," J Acquir Immune Defic Syndr. 7(9):879-90 (1994)
	NP	Mutch D.A. et al., "Effects of end groups on the stimulatory capacity of minimal length T cell determinant peptides. Pept Res," 4(3):132-7 (1991)
	NQ	Nanda, N.K. et al., "Recognition of multiple peptide cores by a single T cell receptor," J Exp Med. 182(2):531 (1995).
	NR	Newton, D.L. et al., "Angiogenin Single-Chain Immunofusions: Influence of Peptide

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		Linkers and Spacers between Fusion Protein Domains", Biochemistry, 35:545-553; (1996)
	NS	Nord, K. et al., "Recombinant Human Factor VIII-specific Affinity Ligands Selected From Phage-displayed Combinant Libraries of Protein A", Eur. J. Biochem., 268:4269-4277 (2001)
	NT	Novotny, J. et al., "Antigenicity of Myohemerythrin", Science, 238(4833): 1584-1586 (1988)
	NU	O'Day, W.T. and H.R. Fernandez, "Aristostomias scintillans (Malacostiedae): a deep sea fish with visual pigments apparently adapted to its own bioluminescence", Vision Res., 14:545-550 (1974)
	NV	Padwa, A. and D. Pashayan, "Photoelimination of a $\beta$ -Keto Sulfide with a Low-Lying $\pi$ - $\pi^*$ Triplet State", J. Org. Chem., 36(23):3550-3552 (1971)
	NW	Patwardham, A.V. et al., "Selection of optimum affinity tags from a phage-displayed peptide library. Application to immobilized copper(II) affinity chromatography", J. Chromatogr. A., 787(1-2):91-100 (1997)
	NX	Peelle, B. et al., "Intracellular protein scaffold-mediated display of random peptide libraries for phenotypic screens in mammalian cells", Chem. Biol., 8(5):521-534 (2001).
	NY	Peerce, B.E. and Wright, E.M., "Distance between substrate sites on the Na-glucose cotransporter by fluorescence energy transfer", Proc. Natl. Acad. Sci. U.S.A., 83:8092-8096 (1986)
	NZ	Pessi, A. et al., "A designed metal-binding protein with a novel fold", Nature, 362(6418):367-369 (1993)
	OA	Pidgeon, C., "Solid Phase Membrane Mimetics: Immobilized Artificial Membranes", Enzym. Microb. Technol., 12:149-150 (1990)
	OB	Pinilla, C. et al., "Exploring immunological specificity using synthetic peptide combinatorial libraries", Curr. Opin. Immunol. 11:193-202 (1999)
	OC	Pollok and Heim, "Using GFP in FRET-based applications", Trends in Cell Biol., 9:57-60 (1999)
	OD	Powers et al., "Protein Purification by Affinity Binding to Unilamellar Vesicles", Biotechnol. Bioengineering, 33:173-182 (1989)
	OE	Puttaraju, M. et al., "Spliceosome-mediated RNA trans-Splicing as a Tool for Gene Therapy", Nature Biotech., 17(3):246-252 (1999)
	OF	Radford, A.J. et al., "Epitope mapping of the Mycobacterium bovis secretory protein MPB70 using overlapping peptide analysis," J Gen Microbiol. 136 ( Pt 2):265-72 (1990)
	OG	Ramasamy, R. and H.M. Geysen, "Novel cross-reactive epitopes on asexual blood stage antigens of Plasmodium falciparum," Parasite Immunol. 12(5):457-71 (1990)
	OH	Randolph, J.T. et al., "Major Simplifications in Oligosaccharide Syntheses Arising from a Solid-Phase Based Method: An Application to the Synthesis of the Lewis b Antigen", J. Am. Chem. Soc., 117:5712-5719 (1995).
	OI	Rebar, E.J. et al., "Zinc Finger Phage:Affinity Selection of Fingers with New DNA-Binding Specificities", Science 263:671-673 (1994)
	OJ	Reece, J.C. et al., "Mapping the major human T helper epitopes of tetanus toxin. The emerging picture," J Immunol. 151(11):6175-84 (1993)
	OK	Reece, J.C. et al., "Scanning for T helper epitopes with human PBMC using pools of short synthetic peptides," J Immunol Methods. 172(2):241-54 (1994)

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	OL	Rodda, S.J. et al., "The antibody response to myoglobin--I. Systematic synthesis of myoglobin peptides reveals location and substructure of species-dependent continuous antigenic determinants," Mol Immunol. 23(6):603-10 (1986)
	OM	Rodda, S.J. and G. Tribbick, "Antibody-Defined Epitope Mapping Using the Multipin Method of Peptide Synthesis", Methods: A Companion to Methods in Enzymology, 9(3):473-481 (1996)
	ON	Rodda, S.J. et al. "Epitope Delineation Using Multiple Peptide Synthesis", Structure of Antigens, Van Regenmortel (Ed.) 3:37-60 (1996)
	OO	Rodebaugh, R. et al., "A New o-Nitrobenzyl Photocleavable Linker for Solid Phase Synthesis" Tetrahedron Letters 38(44):7653-7657 (1997)
	OP	Romito, M. et al., "Eliciting Antigen-Specific Egg Yolk IgY with naked DNA", BioTechniques, 31(3):670-675 (2001)
	OQ	Runnels and Scarlata, "Theory and Application of Fluorescence Homotransfer to Melittin Oligomerization", Biophys. J., 69:1569-1583 (1995)
	OR	Sambrook (Ed.), et al., "Molecular Cloning, A Laboratory Manual", Second Edition, Ch. 1&8: pp 1-110 (ch.1) and 1-86 (ch.8, Cold Spring Harbor Laboratory Press (1989)
	OS	Sattayasai, N. et al., "Subtype-specificity of anti-peptide antibodies raised against unique sequences of human interferons-alpha. Mol Immunol," 28(9):975-83 (1991)
	OT	Sattayasai, N. et al., "Universal antibodies to human interferon-alpha subtypes--the production of anti-peptide antibodies to conserved regions of interferon-alpha," J Interferon Res. 11(1):41-8 (1991)
	OU	Saul, A. et al., "Cross-reactivity of antibody against an epitope of the Plasmodium falciparum second merozoite surface antigen," Parasite Immunol. 11(6):593-601 (1989)
	OV	Saxon, E. et al., "A "traceless" Staudinger ligation for the chemoselective synthesis of amide bonds", Org. Lett. 2(14):2141-2143 (2000)
	OW	Schoofs, P.G. et al., "Epitopes of an influenza viral peptide recognized by antibody at single amino acid resolution", Journal of Immunology, 140(2):611-616 (1988).
	OX	Scott, J.K. and G.P. Smith, "Searching for Peptide Ligands with an Epitope Library", Science, 249:386-390 (1990)
	OY	Selvey, L.A., "Identification of B-epitopes in the human papillomavirus 18 E7 open reading frame protein," J Immunol. 145(9):3105-10 (1990)
	OZ	Selvin, P.R., "Fluorescence Resonance Energy Transfer", Methods in Enzymology, 246:300-334 (1995)
	PA	Senter, P.D. et al., "Novel Photocleavable Protein Crosslinking Reagents and Their Use in the Preparation of Antibody-Toxin Conjugates", Photochem. Photobiol., 42(3):231-237 (1985)
	PB	Serrero, G. et al., "Adipose differentiation related protein: expression, purification of recombinant protein in Escherichia coli and characterization of its fatty acid binding properties", Biochim. Biophys. Acta, 1488(3):245-254 (2000)
	PC	Sheng, M. and M.E. Greenberg, "The regulation and function of c-fos and other immediate early genes in the nervous system," Neuron, 4:477-485 (1990).
	PD	Sheriff, S. and K.L. Constantine, "Redefining the minimal antigen-binding fragment", Nat. Struct. Biol., 3(9):733-736 (1996)

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17102-011001 / 1760	Application No. 10/806,924
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Mario Geysen, et. al	
		Filing Date March 22, 2004	Group Art Unit 1645

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	PE	Short, J.M. et al., "Characterization of the phosphoenolpyruvate carboxykinase (GTP) promoter-regulatory region," J. Biol. Chem., 261:9721-9726 (1986).
	PF	Shukla, D.D. et al., "Localization of virus-specific and group-specific epitopes of plant potyviruses by systematic immunochemical analysis of overlapping peptide fragments", Proc. Natl. Acad. Sci. U.S.A., 8:8192-8196 (1989)
	PG	Shulman, M. et al., "A better cell line for making hybridomas secreting specific antibodies", Nature 276(5685):269-270 (1978)
	PH	Skerra, A., "Engineered protein scaffolds for molecular recognition", J. Mol. Recognit., 13(4):167-187 (2000)
	PI	Skerra, A., "Lipocalins as a scaffold", Biochim. Biophys. Acta, 1482(1-2):337-350 (2000)
	PJ	Sleeman, M.A. et al., "B cell- and monocyte-activating chemokine (BMAC), a novel non-ELR alpha-chemokine", Int. Immunol., 12(5):677-89 (2000)
	PK	Sleeman, M.A. et al., "Gene Expression in Rat Dermal Papilla Cells: Analysis of 2529 ESTs", Genomics, 69(2):214-224 (2000)
	PL	Sleeman, M.A. et al., "Identification of a new fibroblast growth factor receptor", Gene, 271(2):171-182 (2001)
	PM	Smart, S.S. et al., "High-throughput purity estimation and characterisation of synthetic peptides by electrospray mass spectrometry," Int J Pept Protein Res. 47(1-2):47-55 (1996)
	PN	Smith, M.C. et al., "Kinetically Inert Co(III) Linkage Through an Engineered Metal Binding Site: Specific Orientation of Recombinant Human Papillomavirus Type 16 E7 Protein on a Solid Support", Methods: A Companion to Methods in Enzymology, 4:73-78 (1992)
	PO	Songyang, Z. et al., "SH2 domains recognize specific phosphopeptide sequences", Cell, 72(5):767-778 (1993)
	PP	Southworth, M.W. et al., "Control of Protein Splicing by Intein Fragment Reassembly", EMBO J., 17(4):918-926 (1998)
	PQ	Sparks, A.B. et al., "Mapping the specificity of SH3 domains with phage-displayed random-peptide libraries", Methods Mol. Biol., 84:87-103 (1998)
	PR	Staros, J.V. et al., "Enhancement by N-Hydroxysulfosuccinimide of Water-Soluble Carbodiimide-Mediated Coupling Reactions", Anal. Biochem., 156: 220-222 (1986)
	PS	Stemmer, W.P.C. et al., "Single-step assembly of a gene and entire plasmid from large numbers of oligodeoxyribonucleotides", Gene, 164(1):49-53 (1995)
	PT	Stemmer, W.P.C., "DNA Shuffling by Random Fragmentation and Reassembly: In vitro Recombination for Molecular Evolution", Proc. Natl. Acad. Sci. USA, 91:10747-10751 (1994)
	PU	Stewart, W.W. "Lucifer dyes—highly fluorescent dyes for biological tracing", Nature, 292:17-21 (1981)
	PV	Strachan, L. et al., "Cloning and Biological Activity of Epigen, a Novel Member of the Epidermal Growth Factor Superfamily", J. Biol. Chem., 276(21):18265-18271 (2001)
	PW	Stryer, L. and R.P. Haugland, "Energy Transfer: A Spectroscopic Ruler", Proc. Natl. Acad. Sci. U.S.A., 58: 719-726 (1967)
	PX	Sucholeiki, I., "Solid-Phase Photochemical C-S Bond Cleavage of Thioethers-A New Approach to the the Solid-Phase Production of Non-Peptide Molecules", Tetrahedron Letters, 35(40):7307-7310 (1994)

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	PY	Suhrbier, A. et al., "Role of Single Amino Acids in the Recognition of a T Cell Epitope", J. of Immunol., 147(8):2507-2513 (1991)
	PZ	Sun, S., "Technology evaluation: SELEX, Gilead Sciences Inc", Current Opinion in Molecular Therapeutics, 2(1): 100-105 (2000)
	QA	Swimmer, C. et al., "Phage Display of Ricin B Chain and its Single Binding Domains: System for Screening Galactose-Binding Mutants", Proc. Natl. Acad. Sci. USA, 89:3756-3760 (1992)
	QB	Tainer, J.A. et al., "Defining Antibody-Antigen Recognition: Towards Engineered Antibodies and Epitopes.", Intern. Rev. Immunol. 7:165-188 (1991)
	QC	Tam, S.W. et al., "Simultaneous analysis of eight human Th1/Th2 cytokines using microarrays", J. Immunol. Methods, 261(1-2):157-165 (2002)
	QD	Thomas, C.D. et al., "In Vitro Studies of the Initiation of Staphylococcal Plasmid Replication", J. Biol. Chem., 265(10):5519-5530 (1990)
	QE	Thorpe, P.E. et al., "New coupling agents for the synthesis of immunotoxins containing a hindered disulfide bond with improved stability in Vitro", Cancer Res., 47:5924-5931; (1987)
	QF	Tindle, R.W. et al., "Identification of B epitopes in human papillomavirus type 16 E7 open reading frame protein", J. of Gen. Vir., 71:1347-1354 (1990)
	QG	Toh, Y. et al., "Isolation and characterization of a rat liver alkaline phosphatase gene," Eur. J. Biochem., 182:231-238 (1989)
	QH	Topal, M.D. and M. Conrad, "Changing endonuclease EcoRII Tyr308 to Phe abolishes cleavage but not recognition: possible homology with the Int-family of recombinases", Nucleic Acids Res., 21(11):2599-2603 (1993)
	QI	Triantafyllou, B. et al., "Use of the multipin peptide synthesis technique for the generation of antipeptide sera," Cell Biophys. 21(1-3):33-52 (1992)
	QJ	Tribbick, G. et al., "Similar binding properties of peptide ligands for a human immunoglobulin and its light chain dimer", Mol. Immunol., 26(7):625-635 (1989)
	QK	Tribbick, G. et al., "Systematic fractionation of serum antibodies using multiple antigen homologous peptides as affinity ligands", Journal of Immunological Methods, 139:155-166 (1991)
	QL	Underwood, J.R. et al., "Monoclonal anti-H1 histone autoantibodies from unimmunized Balb/c mice. Specificity and VH and VL domain sequences," J Autoimmun. 7(3):291-320 (1994)
	QM	Valerio, R.M. et al., "Multipin peptide synthesis at the micromole scale using 2-hydroxyethyl methacrylate grafted polyethylene supports," Int J Pept Protein Res. 42(1):1-9 (1993)
	QN	Vedejs, E. and D.A. Perry, "A Method for Mild Photochemical Oxidation; Conversion of Phenacyl Sulfides into Carbonyl Compounds", J. Org. Chem., 49:573-575 (1984)
	QO	Vieira, J. and J. Messing, "Production of Single-Standed Plasmid DNA", Methods in Enzymology, 153:3-11 (1987)
	QP	Vishwanatha, J.K. et al., "Enhanced expression of annexin II in human pancreatic carcinoma cells and primary pancreatic cancers", Carcinogenesis 14(12):2575-2579 (1993)
	QQ	Volk, W.A. et al., "Monoclonal Antibodies to the Glycoprotein of Vesicular Stomatitis Virus: Comparative Neutralizing Activity", J. Virol., 42(1):220-227 (1982)

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	QR	Wagner, D.S. et al., "Ratio encoding combinatorial libraries with stable isotopes and their utility in pharmaceutical research," Comb Chem High Throughput Screen. 1(3):143-53 (1998)
	QS	Walden, P. et al., "Major histocompatibility complex-restricted and unrestricted activation of helper T cell lines by liposome-bound antigens", J. Mol. Cell Immunol., 2:191-197; (1986)
	QT	Wang, J.X. et al., "Systematic study of substance P analogs. I. Evaluation of peptides synthesized by the multipin method for quantitative receptor binding assay," Int J Pept Protein Res. 42(4):384-91 (1993)
	QU	Wang, J.X. et al., "Systematic study of substance P analogs. II. Rapid screening of 512 substance P stereoisomers for binding to NK1 receptor," Int J Pept Protein Res. 42(4):392-9 (1993)
	QV	Wang, J.-x. et al., "Application of the Multipin Peptide Synthesis Technique for Peptide Receptor Binding Studies: Substance P as a Model System", Bioorg. Med. Chem. Lett., 3(3):447-450 (1993)
	QW	Wang, S.-S., "Solid Phase Synthesis of Protected Peptides via Photolytic Cleavage of the $\alpha$ -Methylphenacyl Ester Anchoring Linkage", J. Org. Chem., 41(20):3258-3261 (1976)
	QX	Ward, C.W. et al., "Systematic Mapping of Potential Binding Sites for Shc and Grb2 SH2 Domains on Insulin Receptor Substrate-1 and the Receptors for Insulin, Epidermal Growth Factor, Platelet-derived Growth Factor, and Fibroblast Growth Factor", J. Biol. Chem., 271(10):5603-5609 (1996)
	QY	Watson, J.D. et al., "Molecular Biology of the Gene, 4th Edition", The Benjamin/Cummings Pub. Co., pp 224 (1987)
	QZ	Weiler, J. et al., "Hybridisation Based DNA Screening on Peptide Nucleic Acid (PNA) Oligomer Arrays", Nucl. Acids Res., 25(14):2792-2799 (1997)
	RA	Weiner, A.J. et al., "Evidence for immune selection of hepatitis C virus (HCV) putative envelope glycoprotein variants: Potential role in chronic HCV infections", Proc. Natl. Acad. Sci. U.S.A., 89:3468-3472 (1992)
	RB	Wellhöner, H.H. et al., "Uptake and concentration of bioactive macromolecules by K562 cells via the transferrin cycle utilizing an acid labile transferrin conjugate", J. Biol. Chem., 266(7):4309-4314 (1991)
	RC	Wellings, D.A. and E. Atherton, "Standard Fmoc Protocols", Methods Enzymol., 289: 44-67 (1997)
	RD	Westerlund-Wikstrom, B., "Peptide display on bacterial flagella: principles and applications", Int. J. Med. Microbiol., 290(3):223-230 (2000)
	RE	Whitlow, M. et al., "An improved linker for single-chain Fv with reduced aggregation and enhanced proteolytic stability", Protein Engineering, 6(8):989-995; (1993)
	RF	Williams, W.V. et al., "Development of biologically active peptides based on antibody structure", Proc. Natl. Acad. Sci. U.S.A., 86(14): 5537-5541 (1989)
	RG	Wong, S. "Conjugation of Proteins to Solid Matrices", Chemistry of Protein Conjugation and CrossLinking, CRC Press, 12:295-317 (1993)
	RH	Wright, D.E. and M. Rodbell, "Preparation of 2-Thioltryptophan-glucagon and (Tryptophan-S-Glucagon)2, J. Biol. Chem., 255(22): 10884-10887 (1980)
	RI	Wu, H. et al., "Protein trans-splicing and functional mini-inteins of a cyanobacterial dnaB

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		intein", Biochim Biophys Acta. 1387(1-2):422-432 (1998)
	RJ	Wu, H. et al., "Building Zinc Fingers by Selection: Toward a Therapeutic Application", Proc. Natl. Acad. Sci. USA, 92:344-348 (1995)
	RK	Wu, P. and L. Brand, "Resonance Energy Transfer: Methods and Applications", Anal. Biochem., 218(1): 1-13 (1994)
	RL	Xu, H. et al., "A novel PCNA-binding motif identified by the panning of a random peptide display library", Biochemistry, 40(14):4512-4520 (2001)
	RM	Yamamoto, K. et al., "Cyborg lectins: novel leguminous lectins with unique specificities", J. Biochem., 127(1):137-142 (2000)
	RN	Yen, H.-R. et al., "Synthesis of Water-Soluble Copolymers Containing Photocleavable Bonds", Makromol. Chem., 190:69-82 (1989)
	RO	Yuan, C.-S. et al., "Chemical Modification and Site-Directed Mutagenesis of Cysteine Residues in Human Placental S-Adenosylhomocysteine Hydrolase", J. Biol. Chem., 271(45):28009-28016 (1996)
	RP	Zeder-Lutz, G. et al., "Monoclonal antipeptide antibodies: affinity and kinetic rate constants measured for the peptide and the cognate protein using a biosensor technology," Mol Immunol. 30(2):145-55 (1993)
	RQ	Zhang, Y. et al., "A New Logic for DNA Engineering Using Recombination in Escherichia coli", Nature Genetics, 20:123-128 (1998)
	RR	Zuckermann, R.N. et al., "Efficient Method for the Preparation of Peptoids [Oligo(N-substituted glycines)] by Submonometer Solid-Phase Synthesis", J. Am. Chem. Soc., 114:10646-10647 (1992)
	RS	Zuckerman et al., "Identification of highest-affinity ligands by affinity selection from equimolar peptide mixtures generated by robotic synthesis," Proc. Natl. Acad. Sci. USA 89: 4505-4509 (1992)

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